Bruhat Bangalore Mahanagara Palike
Excecutive Engineer Dasarahalli Division

Name of Work: Improvements to Road and Asphalting to Kala main road and other development works in Surrounding area of K.G Halli in Ward No-12 Shettyhalli Sub division

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	Civil Work								
1	**Removing & Refixing stone slabs** of drains and pointing in C.M (1:3) (P.No-27,I No-5.33)								
	Kala Main Road								
	Ch:0.0m to 975.00m LHS	1	400.00	1.50		600.00			
	Ch:0.0m to 975.00m RHS	1	400.00	1.50		600.00			
						1200.00	**Sqm**	**111.30**	**133560.00**
2	KSRRB 300-1. **Earthwork excavation by manual means for roads,** drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications 10km lead= 57+2.0x1.28x10 =82.60								
	Desilt								
	Kala Main Road								
	Ch:0.0m to 975.00m LHS	1	875.00	0.60	0.45	236.25			
	Ch:0.0m to 975.00m RHS	1	975.00	0.60	0.45	263.25			
						499.50	**Cum**	**220.40**	**110089.80**
	KSRRB M2100-10. Providing and laying **Plain cement concrete of mix 1:3:6** with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. (P.No-222,I No-27.18)								
	CC Road								
	10th Cross	1	130.00	4.50	0.15	87.75			
	Maramma Temple Rd	1	60.00	5.00	0.15	45.00			
	Cross Road -1	1	18.60	3.50	0.15	9.77			
	Cross Road -2	1	17.70	3.50	0.15	9.29			
	Cross Road -3	1	33.40	4.20	0.15	21.04			
						172.85	**Cum**	**5421.90**	**937172.70**
	Providing and Fixing pre cast **covering Slab 250mm thick** made out of CC 1:2:4 and jelly 20mm Down size with steel reinforcement including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete.As per Engineer incharge								
	For Damaged Culvert	15	1.50	0.60		**13.50**	**Sqm**	**5241.00**	**70,753.50**
	KSRRB M300-14. **Excavation for roadwork in all types of soil** by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications MORTH Specificatio MORTH Specification No.301Loading and unloading with 10km lead= (I No-19.14,P No-143)								
	Ch:0.0m to 975.00m	1	975.00	1.90	0.375	694.69			
	11th Main Road	1	311.00	1.10	0.375	128.29			

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	13th Main	1	107.00	1.20	0.375	48.15			
	12th Main	1	96.00	1.20	0.375	43.20			
	10th Main	1	126.00	1.20	0.375	56.70			
	9th Main	1	133.00	1.20	0.375	59.85			
	8th Main	1	136.00	1.20	0.375	61.20			
	7th Main	1	132.00	1.20	0.375	59.40			
	6th Main	1	133.50	1.20	0.375	60.08			
	5th Main	1	163.00	1.20	0.375	73.35			
	Cross Road-1	1	48.00	1.20	0.375	21.60			
	Cross Road-2	1	48.00	1.20	0.375	21.60			
	1st Cross Rd frm 3rd Main	1	240.00	1.20	0.375	108.00			
	1st Cross	1	260.00	1.20	0.375	117.00			
	10th Cross	1	130.00	4.50	0.25	146.25			
	Maramma Temple Rd	1	60.00	5.00	0.25	75.00			
	Raghavendra layout 2nd Crs	1	198.00	5.00	0.25	247.50			
	Cross Road -1	1	18.60	3.50	0.25	16.28			
	Cross Road -2	1	17.70	3.50	0.25	15.49			
	Cross Road -3	1	33.40	4.20	0.25	35.07			
						2088.68	**Cum**	**69.06**	**144244.41**
	KSRRB 300-58. **Compaction of original ground** by mechanical means including filling in depression occuring during rolling including cost of all labour, HOM complete as per specifications (I No-19.64,P No-147)								
	CC Road								
	10th Cross	1	130.00	4.50		585.00			
	Maramma Temple Rd	1	60.00	5.00		300.00			
	Raghavendra layout 2nd Crs	1	198.00	5.00		990.00			
	Cross Road -1	1	18.60	3.50		65.10			
	Cross Road -2	1	17.70	3.50		61.95			
	Cross Road -3	1	33.40	4.20		140.28			
						2142.33	**Sqm**	**6.36**	**13,625.22**
	Construction of **granular sub-base Grading-V** as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications Clause 401 of MORTH V Revision.(I No-20.5,P No-153)								
	Ch:0.0m to 975.00m	1	975.00	1.90	0.15	277.88			
	11th Main Road	1	311.00	1.10	0.15	51.32			
	13th Main	1	107.00	1.20	0.15	19.26			
	12th Main	1	96.00	1.20	0.15	17.28			
	10th Main	1	126.00	1.20	0.15	22.68			
	9th Main	1	133.00	1.20	0.15	23.94			
	8th Main	1	136.00	1.20	0.15	24.48			
	7th Main	1	132.00	1.20	0.15	23.76			
	6th Main	1	133.50	1.20	0.15	24.03			
	5th Main	1	163.00	1.20	0.15	29.34			
	Cross Road-1	1	48.00	1.20	0.15	8.64			
	Cross Road-2	1	48.00	1.20	0.15	8.64			
	1st Cross Rd frm 3rd Main	1	240.00	1.20	0.15	43.20			

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	1st Cross	1	260.00	1.20	0.15	46.80			
	10th Cross	1	130.00	4.50	0.15	87.75			
	Maramma Temple Rd	1	60.00	5.00	0.15	45.00			
	Raghavendra layout 2nd Crs	1	198.00	5.00	0.15	148.50			
	Cross Road -1	1	18.60	3.50	0.15	9.77			
	Cross Road -2	1	17.70	3.50	0.15	9.29			
	Cross Road -3	1	33.40	4.20	0.15	21.04			
						942.59	**Cum**	**1994.92**	**1880390.65**
3	KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to **wet mix macadam** specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications(P.No-155,I No-20.18)								
	Ch:0.0m to 975.00m	1	975.00	1.90	0.225	416.81			
	11th Main Road	1	311.00	1.10	0.225	76.97			
	13th Main	1	107.00	1.20	0.225	28.89			
	12th Main	1	96.00	1.20	0.225	25.92			
	10th Main	1	126.00	1.20	0.225	34.02			
	9th Main	1	133.00	1.20	0.225	35.91			
	8th Main	1	136.00	1.20	0.225	36.72			
	7th Main	1	132.00	1.20	0.225	35.64			
	6th Main	1	133.50	1.20	0.225	36.05			
	5th Main	1	163.00	1.20	0.225	44.01			
	Cross Road-1	1	48.00	1.20	0.225	12.96			
	Cross Road-2	1	48.00	1.20	0.225	12.96			
	1st Cross Rd frm 3rd Main	1	240.00	1.20	0.225	64.80			
	1st Cross	1	260.00	1.20	0.225	70.20			
	Raghavendra layout 2nd Crs	1	198.00	5.00	0.225	222.75			
						1154.61	**Cum**	**2001.28**	**2310697.90**
	KSRRB M500-6. Providing and applying **primer coat** with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications Clause 502 of MORTH V revision(P.No-158,I No-21.6)								
	Ch:0.0m to 975.00m	1	975.00	1.90		1852.50			
	11th Main Road	1	311.00	1.10		342.10			
	13th Main	1	107.00	1.20		128.40			
	12th Main	1	96.00	1.20		115.20			
	10th Main	1	126.00	1.20		151.20			
	9th Main	1	133.00	1.20		159.60			
	8th Main	1	136.00	1.20		163.20			
	7th Main	1	132.00	1.20		158.40			
	6th Main	1	133.50	1.20		160.20			
	5th Main	1	163.00	1.20		195.60			
	Cross Road-1	1	48.00	1.20		57.60			
	Cross Road-2	1	48.00	1.20		57.60			
	1st Cross Rd frm 3rd Main	1	240.00	1.20		288.00			
	1st Cross	1	260.00	1.20		312.00			

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	Raghavendra layout 2nd Crs	1	198.00	5.00		990.00			
						5131.60	Sqm	29.68	152305.89
10	KSRRB 500-7. Providing and **applying tack coat** using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM complete as per specifications (P.No-161,I No-21.7)								
	Ch:0.0m to 975.00m Kala Road	1	975.00	6.85		6678.75			
	11th Main Road	1	311.00	4.50		1399.50			
	13th Main	1	107.00	4.35		465.45			
	12th Main	1	96.00	4.60		441.60			
	10th Main	1	126.00	5.00		630.00			
	9th Main	1	133.00	4.50		598.50			
	8th Main	1	136.00	3.70		503.20			
	7th Main	1	132.00	4.40		580.80			
	6th Main	1	133.50	4.50		600.75			
	5th Main	1	163.00	4.50		733.50			
	Cross Road-1	1	48.00	5.00		240.00			
	Cross Road-2	1	48.00	4.25		204.00			
	1st Cross Rd frm 3rd Main	1	240.00	5.20		1248.00			
	1st Cross	1	260.00	4.80		1248.00			
	Raghavendra layout 2nd Crs	1	198.00	5.00		990.00			
						16562.05	Sqm	12.72	210669.28
1	KSRRB M500-17. Providing and laying **dense graded bituminous macadam** using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications Clause 505 of MORTH V revisionusing 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen (P.No-160,I No-21.17.6)								
	Ch:0.0m to 975.00m Kala Road	1	975.00	6.85	0.05	333.94			
	11th Main Road	1	311.00	4.50	0.05	69.98			
	13th Main	1	107.00	1.20	0.05	6.42			
	12th Main	1	96.00	1.20	0.05	5.76			
	10th Main	1	126.00	1.20	0.05	7.56			
	9th Main	1	133.00	1.20	0.05	7.98			
	8th Main	1	136.00	1.20	0.05	8.16			
	7th Main	1	132.00	1.20	0.05	7.92			
	6th Main	1	133.50	1.20	0.05	8.01			
	5th Main	1	163.00	1.20	0.05	9.78			
	Cross Road-1	1	48.00	1.20	0.05	2.88			
	Cross Road-2	1	48.00	1.20	0.05	2.88			
	1st Cross Rd frm 3rd Main	1	240.00	5.30	0.05	63.60			
	1st Cross	1	260.00	5.20	0.05	67.60			
	Raghavendra layout 2nd Crs	1	198.00	5.00	0.05	49.50			
						651.96	Cum	6858.20	4471289.22

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
12	KSRRB M500-19. Providing and laying **bituminous concrete** using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications Clause 507 of MORTH V revision using40/60 TPH capacity H.M.P. with Mechanical Paver Gr-II (30 mm to 45 mm) with 5.4% VG-30 Bitumen(P.No-162,I No-21.22.6)								
	Ch:0.0m to 975.00m Kala Road	1	975.00	6.85	0.04	267.15			
	11th Main Road	1	311.00	4.50	0.04	55.98			
	13th Main	1	107.00	4.35	0.04	18.62			
	12th Main	1	96.00	4.60	0.04	17.66			
	10th Main	1	126.00	5.00	0.04	25.20			
	9th Main	1	133.00	4.50	0.04	23.94			
	8th Main	1	136.00	3.70	0.04	20.13			
	7th Main	1	132.00	4.40	0.04	23.23			
	6th Main	1	133.50	4.50	0.04	24.03			
	5th Main	1	163.00	4.50	0.04	29.34			
	Cross Road-1	1	48.00	5.00	0.04	9.60			
	Cross Road-2	1	48.00	4.25	0.04	8.16			
	1st Cross Rd frm 3rd Main	1	240.00	5.20	0.04	49.92			
	1st Cross	1	260.00	4.80	0.04	49.92			
	Raghavendra layout 2nd Crs	1	198.00	5.00	0.04	39.60			
						662.48	Cum	7911.84	5241451.59
13	KSRRB M800-13.**Road Marking with Hot Applied Thermoplastic Compound** with Reflectrising Glass Beads on Bituminous Surface/ Concrete Surface: Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 standards specified. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803(P.No-182,I No-24.15)								
	Ch:0.0m to 975.00m Kala Road	2	975.00	0.10		195.00			
	11th Main Road	2	311.00	0.10		62.20			
	13th Main	2	107.00	0.10		21.40			
	12th Main	2	96.00	0.10		19.20			
	10th Main	2	126.00	0.10		25.20			
	9th Main	2	133.00	0.10		26.60			
	8th Main	2	136.00	0.10		27.20			
	7th Main	2	132.00	0.10		26.40			
	6th Main	2	133.50	0.10		26.70			
	5th Main	2	163.00	0.10		32.60			
	Cross Road-1	2	48.00	0.10		9.60			
	Cross Road-2	2	48.00	0.10		9.60			
	1st Cross Rd frm 3rd Main	2	240.00	0.10		48.00			
	1st Cross	2	260.00	0.10		52.00			
	Raghavendra layout 2nd Crs	2	198.00	0.10		39.60			
						621.30	Sqm	454.74	282529.96

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
14	Constructing un-reinforced, **plain cement concrete for pavements using Grade concrete M30** over a prepared base with OPC coarse aggregate at 0.69 cum, fine aggregates at 0.46 cum,Coarse and fin aggregate conforming to IS:383-2016, with Superplastizer at 3 lts conforming to IS 9103-2008. mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). & Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints,including groove cutting charges, joint filler, separation membrane of impermiable plastic sheet of 125 micron, sealant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades, textured with texturing machine, and curing including cost of all materials, labour,hire charges of machineries,all lead & lift charges etc., complete as per specifications -do- with OPC at 360 kg/cum and coarse aggregate 0.69cum, fin aggregate 0.46cum. (I No-22.6.1,P No-176)								
	10th Cross	1	130.00	4.50	0.15	87.75			
	Maramma Temple Rd	1	60.00	5.00	0.15	45.00			
	Cross Road -1	1	18.60	3.50	0.15	9.77			
	Cross Road -2	1	17.70	3.50	0.15	9.29			
	Cross Road -3	1	33.40	4.20	0.15	21.04			
						172.85	Cum	5210.96	900711.83
								Total Construction Cost	16859491.94
								Towards GST 12%	2023139.03
								Towards KRIDL Charges4.5%	758677.14

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
								DPR & PMC Cost	337422.12
								Sub Total	19992260.63
								Utility Shifting,Miscellaneous and Rounding off	7,739.37
								GRAND TOTAL	20000000.00

354049.33
19995357.44
4642.56

Certificate

1. The workspot was inspected and works is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike limits.
3. The rates adopted based on the PWD SR,Bangalore circle for year 2018-2019.and Data Rates

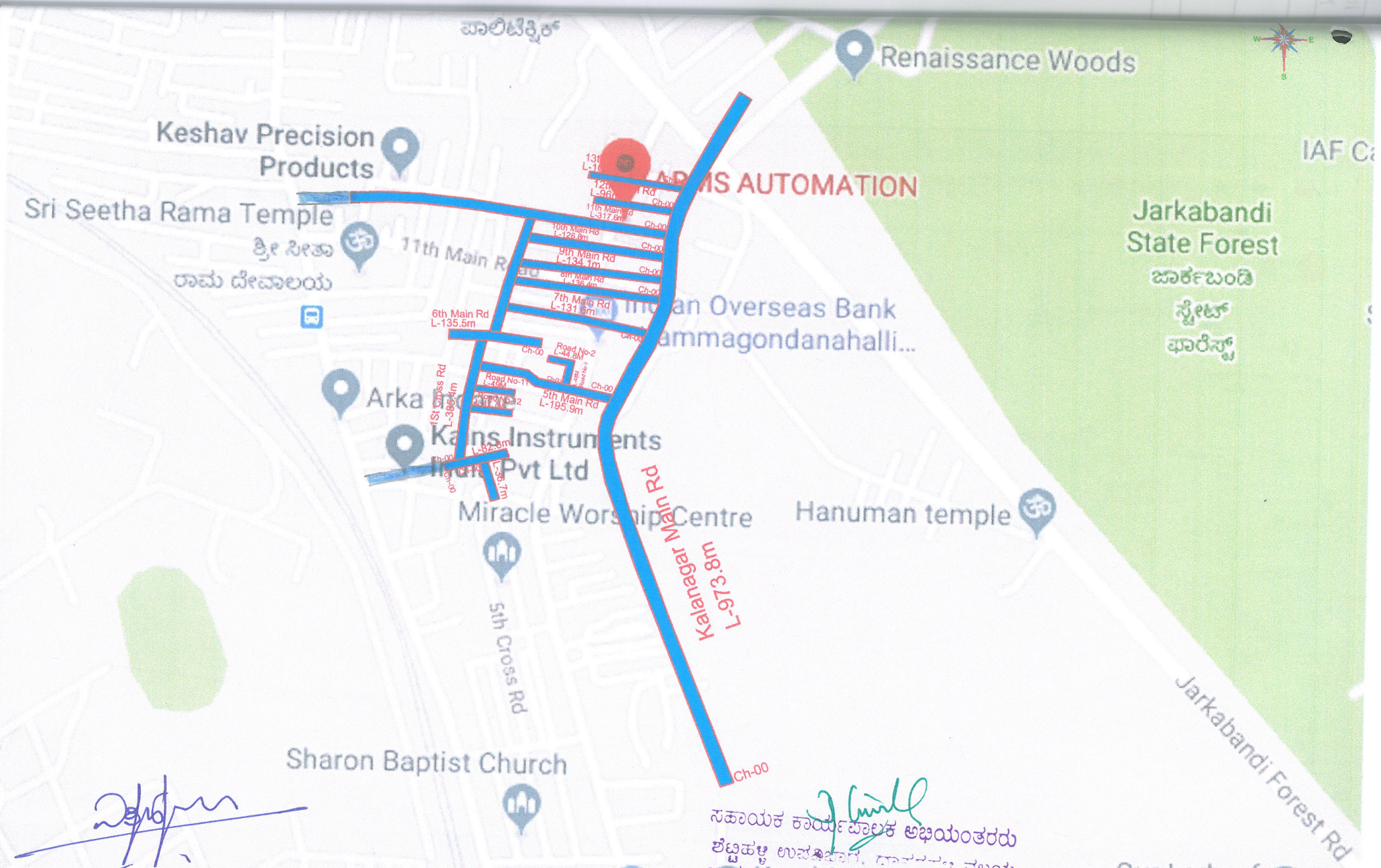
Assistant Engineer
Ward No-12
BBMP Bangalore

Asst. Executive Engineer,
Shettyhalli Sub Division
BBMP Bangalore

Executive Engineer,
Dasarahalli Division
BBMP Bangalore

ಸಂ. EE/DD/AS/15/19-20 ದಿನಾಂಕ : 30/04/19
ರೂ. Rs. Two Hundred Lakhs only (200.00) — " —
ಅಂದಾಜು ಪಟ್ಟಿಗೆ ಆಡಳಿತಾತ್ಮಕ ಮಂಜೂರಾತಿ ನೀಡಿದೆ
ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ.ದಾಸರಹಳ್ಳಿ ವಿಭಾಗ
ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬೆಂಗಳೂರು.

ನಂ. CE/02/TS/17/19-20 ದಿನಾಂಕ : 18/05/2019
ರೂ. 200.00 Lakhs/- (Rs Two Hundred Lakhs only)
ಗಳ ಅಂದಾಜು ಪಟ್ಟಿಗೆ ತಾಂತ್ರಿಕ ಮಂಜೂರಾತಿ ನೀಡಿದೆ.
ತಾಂತ್ರಿಕ ಸಹಾಯಕರು
ಮುಖ್ಯ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ.
ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬೆಂಗಳೂರು.



ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ, ದಾಸರಹಳ್ಳಿ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

CLIENT:	PROJECT	Dwg Title:	
BRUHAT BANGALORE MAHANAGARA PALIKE		PLAN	MEDIAN ASPHALT ROAD